IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A transmitting device for transmitting a digital information signal via a transmission medium,

includingsaid transmitting device comprising:

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- input means for receiving the digital information signal.
- adaptive prediction filter means adapted to derive for
- $\underline{\text{deriving}} \text{ a prediction signal from the digital information signal in } \\ \underline{\text{dependence on an array of prediction filter coefficients}_{7,2}}$
- first signal combination means for combining the digital information signal and said prediction signal so as to obtain a $10 \mid \text{residual signal}_{T,L}$
- coefficient generator means for generating an array of filter coefficients A[i] in response to the digital information

 15 signal, i being an integer for which it holds that 0 ≤ i < p, where p is a variable—;
 - output means for supplying the encoded signal to an output terminal for transmission via the transmission medium,—j__and
 smoothing means for smoothing the array of filter
- 20 coefficients A[i] so as to obtain the array of prediction filter coefficients for supply to the adaptive prediction filter means...

i	wherein the smoothing means includes low-pass filtering means for
I	wherein the smoothing means includes low-pass filtering means for
l	low-pass filtering the array of filter coefficients so as to obtain
l	the prediction filter coefficients, and
l	wherein said low-pass filtering means performs the following
l	equations to obtain the coefficients:
l	Cout [0] = Cin[0] ,
l	Cout[i] = 0.25*Cin[i+1] + 0.5*Cin[i] + 0.25*Cout[i-1].
l	whereby i is an integer and $1 \le i \le n-2$.
l	Cout[n-1] = Cin[n-1].
l	Cin[x] being coefficient number x before smoothing, and $Cout[x]$
١	heing coefficient number z after smoothing.

(Cancelled).

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- 3. (Currently Amended) The transmitting device of as claimed in claim 21, characterized in that the low-pass filtering means comprise comprises an FIR filter.
- 4. (Currently Amended) The transmitting device of as claimed claim 91, characterized in that the low-pass filtering means comprise comprises an IIR filter.
- 5. (Cancelled).

- 6. (Currently Amended) The transmitting device of as claimed in any one of the preceding claims, wherein said transmitting device further comprises:

 _______an arrangement for writing the encoded signal on a record
- carrier.
 - 7. (Currently Amended) A method of transmitting a digital information signal via a transmission medium, <u>said method</u> comprising the steps of:
 - receiving the digital information signal_{T.L.}
- deriving a prediction signal from the digital information signal in dependence on an array of prediction filter

coefficients 7.1.

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- combining the digital information signal and said prediction signal so as to obtain a residual signal $_{7,L}$
- encoding said residual signal so as to obtain an encoded $\operatorname{signal}_{T_{*}L}$
- generating an array of filter coefficients A[i] in response to the digital information signal, i being an integer for which it holds that $0 \le i < p$, where p is a variable τ_{\perp}
- supplying the encoded signal to an output terminal for transmission via the transmission medium,—i...and
- smoothing the array of filter coefficients A[i] so as to obtain the array of prediction filter coefficients, wherein:

	the smoothing includes low-pass filtering the array of
)	filter coefficients A[i] so as to obtain the prediction filter
	coefficients:
	the low-pass filtering is selected between one or more of
	FIR filtering and IIR filtering;
	the low pass filtering applies the following equations to
	obtain the prediction filter coefficients:
	Cout[0] = Cin[0];
	Cout[i] = 0.25*Cin[i+1] + 0.5*Cin[i] + 0.25*Cout[i-1].
	whereby i is an integer and $1 \le i \le n-2$:
	Cout[n-1] = Cin[n-1], $Cin[x]$ being coefficient number x
	before smoothing, and Coutiz) being coefficient number z after
	smoothing;
	supplying the encoded signal includes writing the encoded
	signal on a record carrier.

- 8. (Cancelled).
- 9. (Cancelled).
- 10-12. (Cancelled).
- 13. (Currently Amended) A method of transmitting information via a transmission medium, <u>said method comprising the steps of</u>: receiving a digital information signal;

generating a plurality of filter coefficients in response | to the digital information signal $_{T,\tilde{L}}$

smoothing the filter coefficients to obtain a plurality of prediction filter coefficients;

deriving a prediction signal from the digital information signal in dependence on the filter coefficients r_{\perp}

encoding said residual signal to obtain an encoded $\label{eq:signal} \operatorname{signal}_{7:\underline{2}} \operatorname{and}$

supplying the encoded signal to the transmission medium, wherein said smoothing step comprises low-pass filtering of the filter coefficients to obtain the prediction filter coefficients, and wherein the low pass filtering step performs the following equations to obtain the coefficients:

Cout[i] = 0.25*Cin[i+1] + 0.5*Cin[i] + 0.25*Cout[i-1], whereby i is an integer and $1 \le i \le n-3$;

14. (Cancelled).

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- 15. (Currently Amended) The method as claimed in claim 1413, wherein the low-pass filtering step comprises an-FIR filterfiltering.
- 16. (Currently Amended) The method as claimed in claim 1413, wherein the low-pass filtering step comprises an-IIR filterfiltering.
- 17. (Cancelled).
- 18. (Currently Amended) The method of as claimed in claim 1412, wherein said generating step comprises generating an array of filter coefficients, and said smoothing comprises smoothing the filter coefficients to obtain an array of prediction filter coefficients.
- 5 filter coefficients.